

Title (en)
KNIFE CYLINDER, ROTARY DIE CUTTER, AFFIXATION DEVICE FOR BLADE MOUNTING BASE, AND AFFIXATION METHOD FOR BLADE MOUNTING BASE

Title (de)
MESSERZYLINDER, ROTATIONSSTANZE, BEFESTIGUNGSVORRICHTUNG FÜR KLINGENMONTAGEGRUNDPLATTE UND BEFESTIGUNGSVERFAHREN FÜR KLINGENMONTAGEGRUNDPLATTE

Title (fr)
CYLINDRE DE COUTEAU, DÉCOUPEUR À L'EMPORTE-PIÈCE ROTATIF, DISPOSITIF DE FIXATION POUR BASE DE MONTAGE DE LAME, ET PROCÉDÉ DE FIXATION POUR BASE DE MONTAGE DE LAME

Publication
EP 3098041 A1 20161130 (EN)

Application
EP 15758841 A 20150115

Priority
• JP 2014044398 A 20140306
• JP 2015050867 W 20150115

Abstract (en)
Provided are a knife cylinder, a rotary die cutter, a fixation device for a knife mounting base, and a fixation method for a knife mounting base. A knife cylinder is provided with a restraint part (71) disposed within a fixation hole (49) so as to be movable in the axial direction and so as not to be rotatable in the circumferential direction; a compression coil spring (73) for pressing the restraint part (71) inwardly of the fixation hole (49); an operating part (72) having a base end section provided with a dish section (101) which can engage with a knife mounting base (45), the operating part (72) also having a front end section entering the inside of the restraint part (71) through a mounting hole (48); a protrusion (74) provided to the restraint part (71); a helical groove (75) provided in the operating part (72), the helical groove (75) engaging with the protrusion (74) and being configured so that, when the operating part (72) rotates, the helical groove (75) can move the restraint part (71) from a first position to a second position against the pressing force of the compression coil spring (73); and a blocking groove (76) provided in the outer surface of the operating part (72) and blocking the rotation of the operating part (72) in the reverse direction when the restraint part (71) is located at the second position.

IPC 8 full level
B26F 1/44 (2006.01); **B26D 1/36** (2006.01); **B26D 1/40** (2006.01); **B26D 7/26** (2006.01); **B26D 11/00** (2006.01); **B26F 1/38** (2006.01)

CPC (source: EP KR US)
B26D 1/36 (2013.01 - KR); **B26D 1/40** (2013.01 - KR); **B26D 7/2614** (2013.01 - EP US); **B26F 1/384** (2013.01 - EP US); **B26F 1/44** (2013.01 - EP KR US); **B31B 50/14** (2017.07 - EP US); **B31B 50/20** (2017.07 - EP KR US); **B26D 2007/2607** (2013.01 - EP US); **B26D 2011/005** (2013.01 - EP US); **B26F 2001/4418** (2013.01 - EP US); **B26F 2001/4463** (2013.01 - EP US); **B31B 50/146** (2017.07 - EP US); **B31B 2100/00** (2017.07 - EP US); **B31B 2110/35** (2017.07 - EP US)

Cited by
CN112238505A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3098041 A1 20161130; **EP 3098041 A4 20170201**; **EP 3098041 B1 20201125**; CN 105980117 A 20160928; CN 105980117 B 20180309; JP 2015168027 A 20150928; JP 6096139 B2 20170315; KR 101798807 B1 20171116; KR 20160106118 A 20160909; US 10406711 B2 20190910; US 2017008187 A1 20170112; WO 2015133174 A1 20150911

DOCDB simple family (application)
EP 15758841 A 20150115; CN 201580007230 A 20150115; JP 2014044398 A 20140306; JP 2015050867 W 20150115; KR 20167021246 A 20150115; US 201515116213 A 20150115